



Job Title: Electrical/Software Product Engineer

Department: Engineering

Classification: Exempt

Reports To: Senior Product Engineer

Revision Date: Jan 2018

Job Description: The Electrical Product Engineer is directly responsible for ensuring accurate component specifications in the design and development of products and any other duties that would be assigned. Primary role would be the design and testing of marine DC electrical systems. Secondary role would be to assist with other electrical and software projects as needed.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- ◆ **Electrical System Design**
 - 12V DC Electrical System Layout and Design
 - Create electrical harness drawings using CAD software
 - Ensure marine electrical systems meet Coast Guard and ABYC requirements
 - Test and validate prototype electrical components to ensure function and reliability

- ◆ **Software Development**
 - Graphical User Interface Programming
 - Write software to integrate dynamic systems that use the J1939 / NMEA2000 protocol
 - Android/iOS App Development

- ◆ **Software Configuration Management**
 - Maintain database of Production Software
 - Software Release Planning

- ◆ **Electronics Hardware Development**
 - Work with vendor(s) to define requirements and system performance
 - Custom PCB Layout and Design

ADDITIONAL DUTIES AND RESPONSIBILITIES

- Accomplishes all tasks as appropriately assigned or requested.

QUALIFICATIONS

◆ Experience, Competencies and Education

- BS in Electrical Engineering or related Engineering field
- Understanding of the fundamentals of Engineering
- Proficient in C/C++ programming languages
- Product design/requirement specification
- An energetic, forward-thinking and creative individual with high ethical standards and an appropriate professional image.
- A strategic visionary with sound technical skills, analytical ability, decisive, good judgment and strong operational focus.
- A well-organized and self-directed individual who is a team player.
- An intelligent and articulate individual who can relate to people at all levels of an organization and possesses excellent communication skills.
- A good educator who is trustworthy and willing to share information and serve as a mentor.

◆ Language Skills

- Ability to read, analyze and interpret complex technical documents.
- Ability to respond effectively to the most sensitive inquiries or complaints.
- Ability to make effective and persuasive speeches and presentations

◆ Additional Preferred Experience/Skills

- Marine Industry - Engineering/Manufacturing
- Watersports Experience
- Boating Experience
- Trailering Boats
- AutoCAD Experience

****This is a safety sensitive position**

Americans with Disability Specifications

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential function of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is occasionally required to stand; walk; sit; use hand to finger, handle or feel objects, tools or controls; reach with hands and arms; climb stairs; balance, stoop kneel, crouch or crawl; talk and hear; taste or smell. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Work Environment

Work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential function of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee may be exposed to weather conditions, normal office environment or factory environment that is not climate controlled. The noise level in the work environment is usually moderate. The factory in certain areas maintains a high fiberglass and dust environment.

Personal Protective Equipment might be required in certain areas of the factory including but not limited to safety glasses, respirator, hearing protection, gloves and protective garments.

Equal Employment Opportunity Employer

Nautique Boat Company provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability or genetics. In addition to federal law requirements, Nautique Boat Company complies with applicable state and local laws governing nondiscrimination in employment in every location in which the company has facilities. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, and transfer, leaves of absence, compensation and training.

Nautique Boat Company expressly prohibits any form of workplace harassment based on race, color, religion, gender, sexual orientation, gender identity or expression, national origin, age, genetic information, disability, or veteran status. Improper interference with the ability of Nautique Boat Company's employees to perform their job duties may result in discipline up to and including discharge.

By signing this job description, you understand your job tasks and responsibilities. According to Nautique Boat Company policy employees are not eligible for transfer until completion of one year of employment unless initiated by the company.

Employee Signature

Date

Manager/HR Signature

Date